OPERATOR / SERVICE MANUAL

Hausted® Pediatric Care Stretcher
Models 4160

(07/18/06) **069216**

A WORD FROM STERIS CORPORATION

This manual contains important information on proper use and maintenance of the Horizon Stretcher. All personnel involved in the use and maintenance of this equipment must carefully review and comply with the warnings, cautions and instructions contained in this manual. These instructions are important to protect the health and safety of personnel operating a Horizon Stretcher and should be retained in a conveniently accessible area for quick reference.

Complete instructions for unpacking this unit are provided in *SECTION 2* of this manual.

STERIS carries a complete line of accessories for use with this stretcher. A STERIS representative will gladly review these with you.

Indications for Use

The Hausted® Pediatric Care Stretcher is designed for pediatric-age patients transport, treatment and recovery.

Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. This manual contains maintenance schedules and procedures which should be followed for satisfactory equipment performance.

You are encouraged to contact STERIS concerning our comprehensive Annual Maintenance Agreements. Under the terms of these agreements, preventive maintenance, adjustments, and replacement of worn parts are done on a scheduled basis to assure equipment performance at peak capability and to help avoid untimely or costly interruptions. STERIS maintains a global staff of well equipped, factory-trained technicians to provide this service, as well as expert repair services. Please contact your STERIS representative for details.

Advisory

A listing of the safety precautions to be observed when operating and servicing this equipment can be found in *SECTION 1* of this manual. Do not operate or service the equipment until you have become familiar with this information.

Any alteration of this equipment not authorized or performed by STERIS Engineering Service which could affect its operation will void the warranty; could violate national, state, and local regulations; and could jeopardize your insurance coverage.

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Printed in U.S.A.

CE **EC Authorized Representative**

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Manufactured by:

STERIS Corporation
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Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen or nitrous oxide.

STERIS Corporation, Montgomery, Alabama is an ISO 13485 certified facility.

The base language of this document is ENGLISH. Any translations must be made from the base language document.

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SAFETY PRECAUTIONS

1

The following *Safety Precautions* must be observed when operating or servicing this Hausted® Pediatric Care Stretcher. WARNING indicates the potential for personal injury and CAUTION indicates the potential for damage to equipment. For emphasis, certain *Safety Precautions* are repeated throughout the manual. It is important to review ALL *Safety Precautions* before operating or servicing the unit.

Strictly following these *Safety Precautions* enhances your ability to safely and effectively utilize the unit and helps the customer avoid improper maintenance methods which may damage the unit or render it unsafe. It is important to understand that these *Safety Precautions* are not exhaustive; customers are encouraged to develop their own safety policies and procedures to enhance and compliment these *Safety Precautions.*

WARNING – LACERATION HAZARD:

When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

WARNINGS – PERSONAL INJURY:

Do not sit on end – tipping may occur.

UNPACKING INSTRUCTIONS

2

Important: Report any shipping damage immediately! Inform shipper of any damages – leave carton intact. Leave the Horizon Stretcher in the receiving area until inspection is complete.

Your Hausted® Pediatric Care Stretcher has been carefully packaged at our manufacturing plant to ensure safe shipment to you medical facility. There are several procedures you must follow to put your new Horizon Stretcher into service. These procedures only take a few minutes to complete and are required to ensure proper operation of the Horizon Stretcher.

WARNING – LACERATION HAZARD: When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

Step 1 – Cut the two bands around the shipping carton.

Step 2 – Remove the top half of the carton and cut one side of the bottom half.

Step 3 – Remove the Hausted® Pediatric Care Stretcher from the carton. Cut the bands from around the stretcher.

Step 4 – Check to see if all features of the stretcher work properly. If all features work properly, go to step 5. If any of the features of the Hausted® Pediatric Care Stretcher do not work properly, call STERIS for service.

Step 5 – Clean the Horizon Stretcher using a mild detergent to remove any dirt accumulated during shipment.

Step 6 – Place the stretcher into service.

OPERATING INSTRUCTIONS

3

3.1 Braking and Steering Operation

3.1.1 Applying The Brakes

Figure 3-1

The four wheel central braking system is activated by depressing the red pedal at any of the four corners of the unit (Figure 3-1). To fully engage the brakes, the pedal should be pressed to approximately 45°. All four caster wheels should be locked from swiveling and rotating.

3.1.2 Releasing The Brakes

Figure 3-2

Depress the green pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely.

NOTE: *Brakes should always be activated when unit is not in transport.*

3.1.3 Applying The Steering Lock

Figure 3-3

From the head end of the stretcher, depress the green pedal downward into locked position (Figure 3-3). Push the stretcher forward. One caster at the foot end will lock into a non-swivel mode. This allows straight steering by the attendant, when pushing from the head end.

3.1.4 Releasing The Steering Lock

Depress the red pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely.

3.2 Stretcher Top Height Adjustment

3.2.1 Height Adjustment

Press the pump pedal to the floor (Figure 3-4), then release. Repeat this process until desired height is obtained. Use smooth strokes on pump pedal to ensure patient comfort.

Figure 3-4

3.2.2 Lowering Litter Top

Press down on the two release pedals at the same time (Figure 3-5) until desired height is obtained.

NOTE: *Do Not Stand On Release Pedals.*

Figure 3-5

3.2.3 Trendelenburg Adjustment

Place the unit at maximum height, see *SECTION 3.2, STRETCHER TOP HEIGHT ADJUSTMENT, PAGE 3-2*. Press down on the release pedal nearest the head end (Figure 3-6) until desired position is obtained then remove pressure.

Figure 3-6

3.2.4 Reverse Trendelenburg Adjustment

Figure 3-7

Place the unit at maximum height, see *SECTION 3.2, STRETCHER TOP HEIGHT ADJUSTMENT, PAGE 3-2*. Press down on release pedal nearest the foot end (Figure 3-7) until desired position is obtained, then remove pressure.

3.3 Fowler Operation

3.3.1 Raising the Fowler

Grasp the fowler frame tube (Figure 3-8A), and lift up on the fowler. When desired height is reached, lower the fowler slightly until the ratchet plates are engaged (Figure 3-8B). Be sure the fowler is locked into place by pushing down slightly on the fowler before releasing the tube.

A

B

Figure 3-8

3.3.2 Lowering the Fowler

Figure 3-9

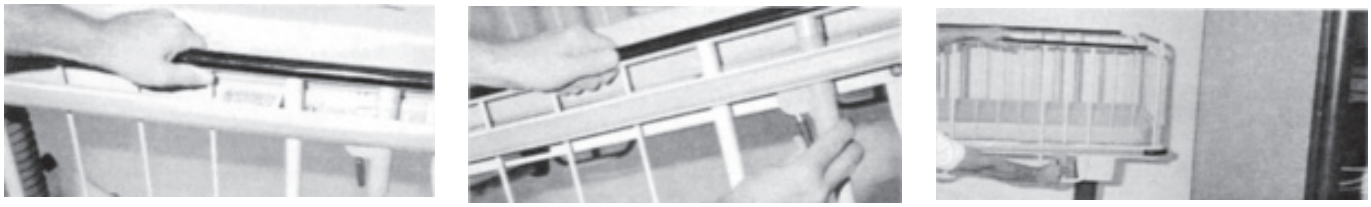
Grasp the fowler frame tube with hand and grasp the ratchet release handle with finger tips (Figure 3-9). Squeeze the ratchet release handle and the fowler frame tube together while lifting slightly on the fowler. Once the ratchet supports are disengaged, while lowering fowler to desired position, continue squeezing ratchet release handle (Figure 3-8B). Be sure the fowler is locked into place by pushing down slightly on the fowler before releasing the tube.

3.4 Rail Operation

3.4.1 Raising the Rail to Full Height

Grasp the rail top tube in the center of the rail (Figure 3-10A), with free hand squeeze the rail trigger (Figure 3-10B). Lift the rail all the way up (Figure 3-10C). Once the rail is all the way up, release the rail trigger and lower the rail slowly until the trigger engages. Check rail lock by trying to squeeze the rail trigger, if you cannot squeeze the trigger the rail is locked securely, release the rail top tube.

NOTE: *Be sure rail is locked securely before leaving patient.*



A B C

Figure 3-10

3.4.2 Raising the Rail to Half Height

Grasp the rail top tube in the center of the rail (Figure 3-10A), raise the rail until it engages. Check rail lock by trying to squeeze the rail trigger, if trigger will not squeeze, the rail is locked securely. Release rail top tube.

NOTE: *Be sure rail is locked securely before leaving patient.*

3.4.3 Lowering the Rail

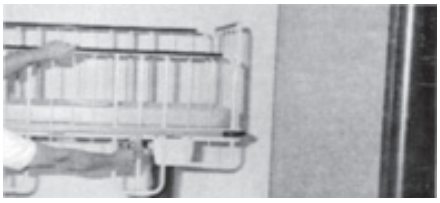


Figure 3-11

Grasp the rail top tube in the center of the rail, with free hand squeeze the rail trigger (Figure 3-10C) while lifting slightly on the rail. This should allow the rail trigger to release the trigger lock. Lower the rail slowly (Figure 3-11). If “half height” is desired, release the rail trigger as soon as the rail starts lowering. If “full down” is desired continue to squeeze the trigger until the rail is all the way down.

NOTE: *Be sure rail is locked securely before leaving patient.*

NOTE: *Never leave the patient unattended with the rail down.*

RECOMMENDED PREVENTIVE MAINTENANCE 4

Procedure	Schedule	Material
Lubricate all moving and sliding parts and hinge points.	6 Months	Lubricating oil, light-duty grease, wax stick lubricant or Never-Seez lubricant.
Inspect all fasteners to ensure proper fit, position and tightness (including nuts, bolts, etc.).	3 Months	Proper size wrench and screw-driver.
Cleaning mattresses and pads	Periodically	Medium strength cleaners, soap and water. (DO NOT pressure clean or steam clean.)
Inspect all surfaces and remove any user developed sharp or burred areas. Apply touch-up paint where required.	Periodically	Metal File, proper color paint (specify color when ordering).
Clean external surface to remove blood, dirt, lint, and any other deposits.	Periodically	Medium strength anti-bacterial cleaners, stainless steel cleaner & polish.

NOTE: *If units are pressure washed or steam cleaned, lubrication of all hinging, moving, and sliding points should be done afterwards. (Pressure washing and steam cleaning are not recommended procedures and can void warranty.)*

For more details information, please contact:

STERIS Corporation at:

1-800-333-8828

RECOMMENDED OPTIONAL ACCESSORIES

5

Number	Description
00011P-00	1” Thick Foam Padded Side And End Rails, Color: Mauve
000012-00	Restraint Straps with Buckle
APC012-00	Restraint Straps With Velcro
000E17-00	I.V. Rod 42” Stainless Steel
000018-00	Telescoping I.V. Rod, 27” To 60” 2 Section, With Holder, Stainless
126740-00	Infusion Pump I.V. Pole 1-1/8” Diameter, 42” Long, Removable
128450-00	Vertical Oxygen Tank Holder
IVSTOW-00	Mobile I.V. Stand Attachment
069060	Fifth Wheel Assembly

Significant assemblies and components of the Hausted® Pediatric Care Stretchers are illustrated and identified in this section. The part number, the description and the quantity required for each usage are given. Each indentation in the description represents the assembly level. The UNITS PER ASSEMBLY column is specific for the given assembly or subassembly level.

6.1 How to Use the Illustrated Parts Breakdown

1. Determine the function and application of the part required. Select the most appropriate title from the List of Illustrations in the Table of Contents. Note the illustration page number.
2. Turn to the page indicated and locate the desired part on the illustration.
3. From the illustration, obtain the item number assigned to the desired part. Refer to the accompanying tabular list (usually on the facing page) for the part number and description of the part.

Typical Indentation Example (Parts Shown are Examples Only)

No indentation – part number of assembly

One indentation – first subassembly, part of assembly under which it is indented

6-2-		P	146655	023	ARM AND LIGHTHEAD ASSEMBLY.....
	1	P	136807	181	CAP .....
	2	P	136807	981	FUNNEL CONE ASSEMBLY .....
		P	136807	979	• CAP, Shield.....
		P	129362	378	• CLIP, Locking.....
		P	93911	304	• CONE, Cap .....
		P	136807	980	• FUNNEL, Cap .....
	3	P	83628	001	SCREW, Button Head, #6-32 x 3/8 l
	4	P	19684	061	LOCKWASHER, Helical, #6 .....
	5	P	90713	061	LOCKWASHER, Helical, #4 .....
	6	P	47760	091	SCREW, Button Head, #4-40 x 1

6.2 List of Illustrations

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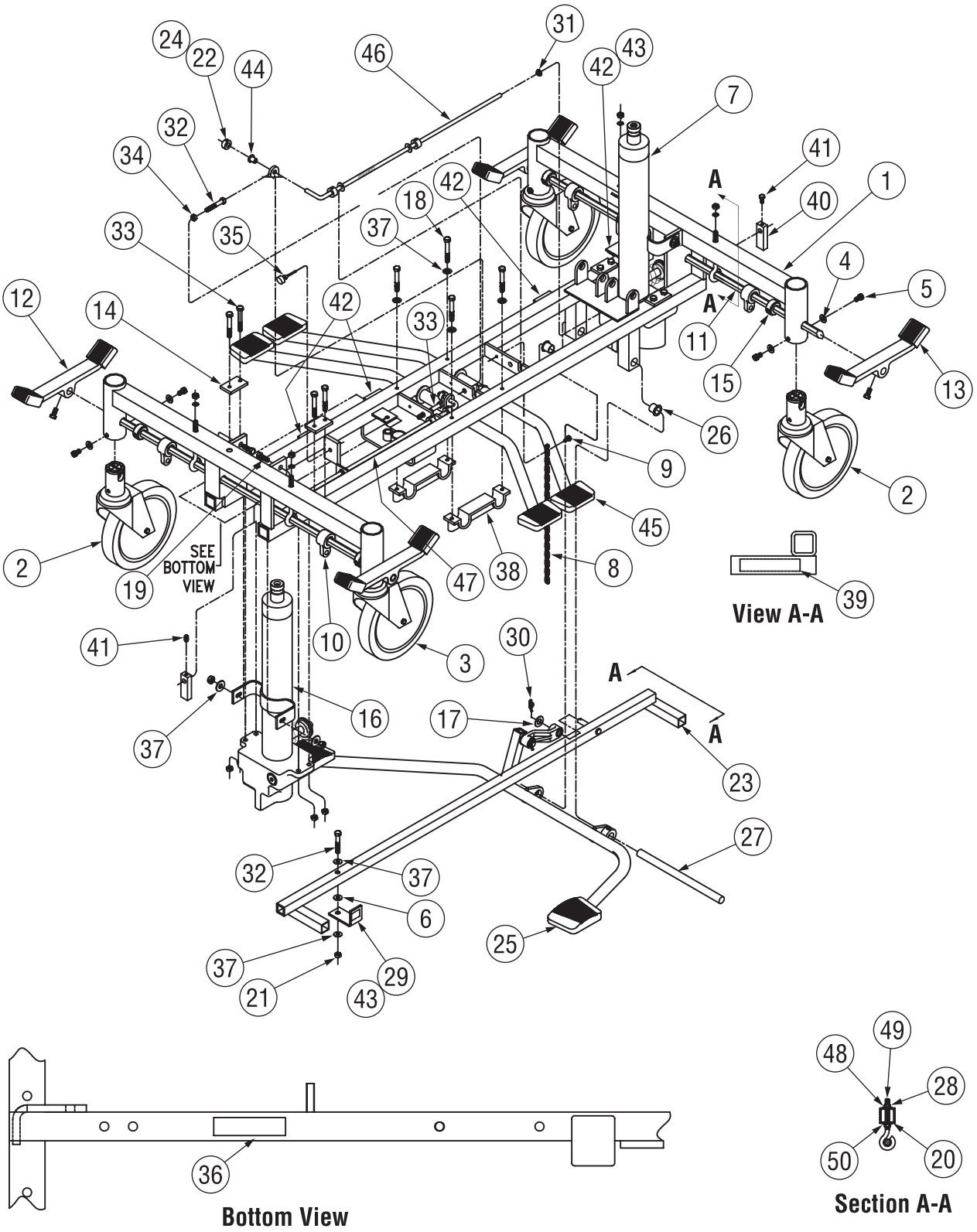

Figure 6-1. Model 4160 Base Final Assembly (Part 1 of 2)

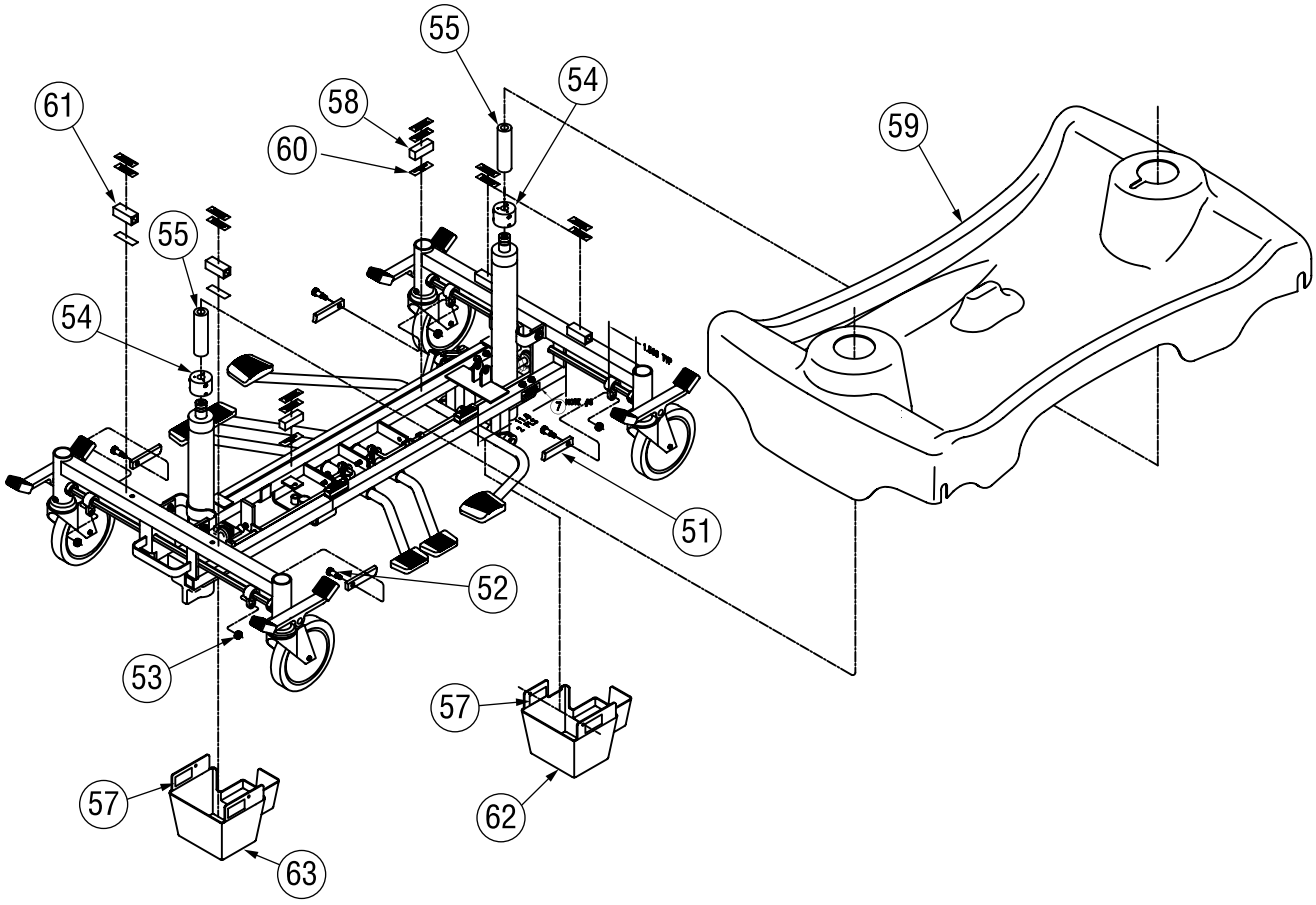

Figure 6-1. Model 4160 Base Final Assembly (Part 2 of 2)

FIG. & ITEM NO.	PART NUMBER			SVC	DESCRIPTION	UNITS PER ASSEMBLY			
6-1	**P**	**150830**	**734**		**MODEL 4160 BASE FINAL ASSEMBLY**	**X**			
1		069026			ASSEMBLY, Short Base Frame	1			
2		075271			CASTER, 8" Tente, Brake Total/Lock (Units made after 1-3-98)	3			
		069018			CASTER, 6" Tente, Twin Brake Total/Lock (Units made before 1-3-98)	3			
3		075270			CASTER, 8" Tente Steer/Lock (Units made after 1-3-98)	1			
		069019			CASTER, 6" Tente Twin, Swivel Lock (Units made before 1-3-98)	3			
4		031090			LOCKWASHER, 1/4 Internal Tooth	8			
5		069022			SCREW, Socket Head Cap Screw, M6 x 1.0 x 10.0	8			
6		031080			WASHER, 5/16	1			
7		068209			JACK, Head End Hydraulic	1			
8		066049			CHAIN, Anti-Static	1			
9		031416			SCREW, Type A Self-Tapping, #10 x 1/2	1			
10		062684			LEVER, Cam	4			
11		069008			ROD, Long Brake	2			
12		069009			ASSEMBLY, Left Brake Pedal	2			
13		069010			ASSEMBLY, Right Brake Pedal	2			
14		069478			PLATE, Jack Mounting Reinforcement	4			
15		068338			COLLAR, Worm	4			
16		068207			JACK, Foot End Hydraulic	1			
17		035115			WASHER, Nylon, 5/16	1			
18		035122			SCREW, Hex Head Cap, 1/4-20 x 1-3/4	4			
19		031337			SCREW, Hex Head Cap, 1/4-20 x 3/4	4			
20		031076			WASHER, USS Flat, 3/4 OD x 5/16 ID	4			
21		031055			NUT, Lock, 1/4-20	13			
22	P	150830	741		COLLAR, Stop, 1/4	2			
23		075243			ASSEMBLY, Jack Link	1			
24	P	150830	742		SCREW, Set, #10-32	2			
25	P	150830	599		ASSEMBLY, Pump Pedal	1			
26		068126			NYLINER, 1/2	2			
27		068379			BAR, Pump Pedal Hinge	1			
28		031359			WASHER, Flat	4			
29		068355			ANGLE, Vertical Guide	1			
30		068417			CLIP, Rue, 5/16	1			
31		068418			NYLINER, Type 7, 1/4	2			
32		031006			SCREW, Hex Head Cap, 1/4-20 x 1-1/2	2			
33		031321			SCREW, Hex Head Cap, 1/4-20 x 2	9			
34		031054			NUT, Free Thread, 1/4-20	2			
35		069492			BUMPER, Stop	1			
36		075249			TAPE, Teflon, 2.5 x .75	1			
37		031076			WASHER, Special Flat	10			
38		069481			BRACKET, Axle Bearing	2			
39		068512			LOOP, Velcro	1			
40		068377			PLATE, Push	2			
41		068890			SCREW, Hex Head Cap, #10-32 x 1/2	2			
42		068380			TAPE, Teflon, 3/4 x 1-1/2	4			
43		068381			TAPE, Teflon, 1/2 x 3/4	2			
44		068530			WASHER, Nylon Shoulder	2			
45		P69484			PEDAL, Release	2			
46	P	150830	746		SUB-ASSEMBLY, Head Release Link	1			
47	P	150830	749		SUB-ASSEMBLY, Foot Release Link	1			
48		031057			NUT, Lock, 5/16-18	4			
49		062688			BOLT, Eye	4			
50		031058			NUT, Free Thread, 5/16-18	4			
51		069091			BAR, Short Brake Connecting	2			
52		065807			BOLT, Shoulder, 3/8 x 3/8	4			

FIG. & ITEM NO.	PART NUMBER			SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-1	**P**	**150830**	**734**		**MODEL 4160 BASE FINAL ASSEMBLY**	**X**
53	P	150830	756		NUT, Lock, 5/16-18	4
54		069097			ASSEMBLY, Stabilizer	2
55		069072			GLIDE, Spacer	2
56		068513			HOOK, Velcro, 2.0 x 5/8 (Not Shown)	12
57		068512			PILE, Velcro, 2.0 x 5/8	12
58		068376			SPACER, Cover	4
59		069030			COVER, Base	1
60		068475			TAPE, Double Sided, 2.0 x 1/2	8
61		069212			TUBE, Cover Support	4
62		069280			COVER, Foot End Horizon Bottom	1
63		069281			COVER, Head End Horizon Bottom	1

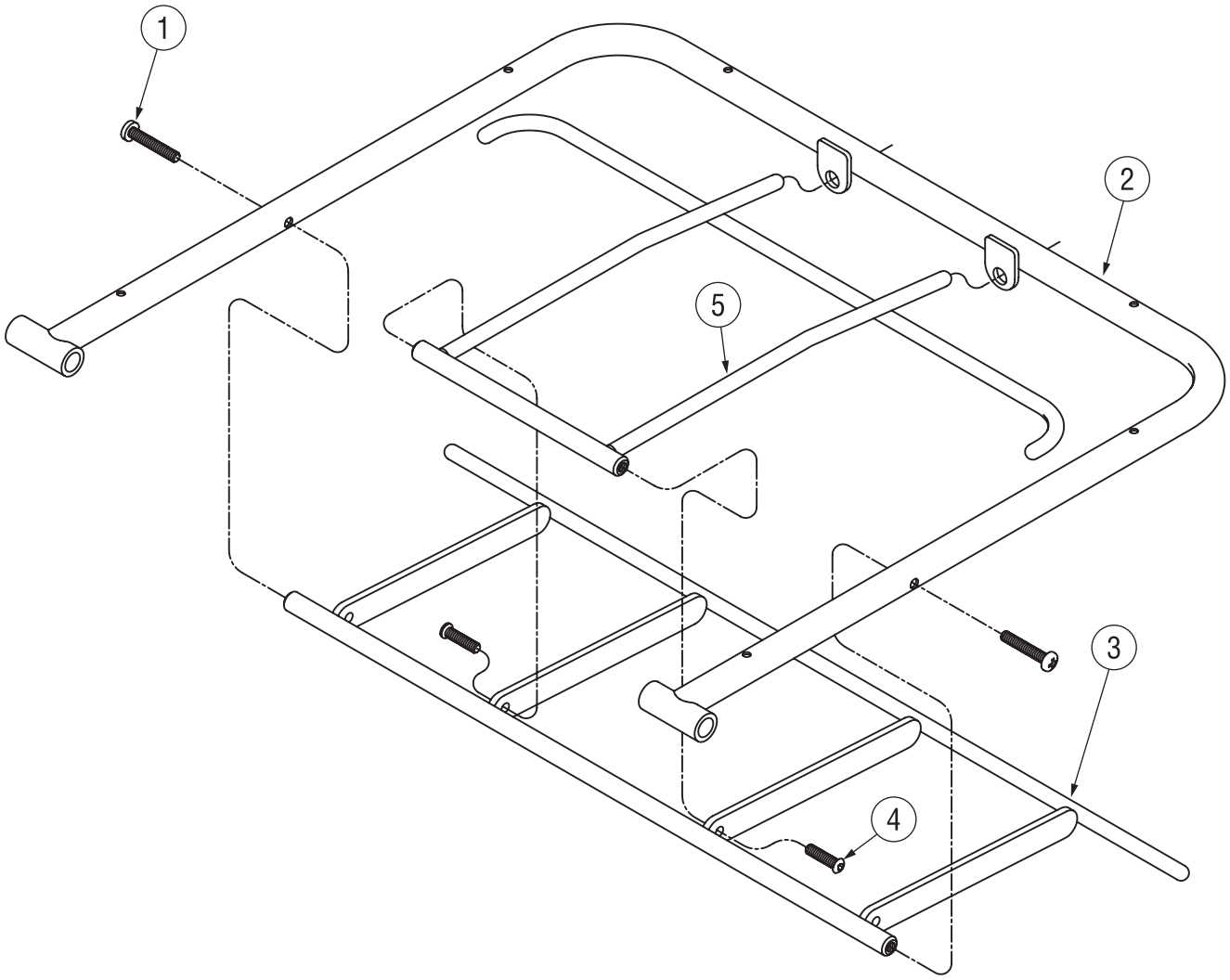

Figure 6-2. Fowler Assembly

FIG. & ITEM NO.	PART NUMBER	SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-2	**069497**		**FOWLER ASSEMBLY .....**	**X**
1	068128		SCREW, Button Head Socket, 1/4-20 x 1-1/4	2
2	069041		ASSEMBLY, Fowler.....	1
3	069085		SUPPORT, Pediatric Fowler.....	1
4	062038		SCREW, Button Head Socket, 1/4-20 x 3/4.....	2
5	069079		HANDLE, Manual Fowler Adjustment.....	1

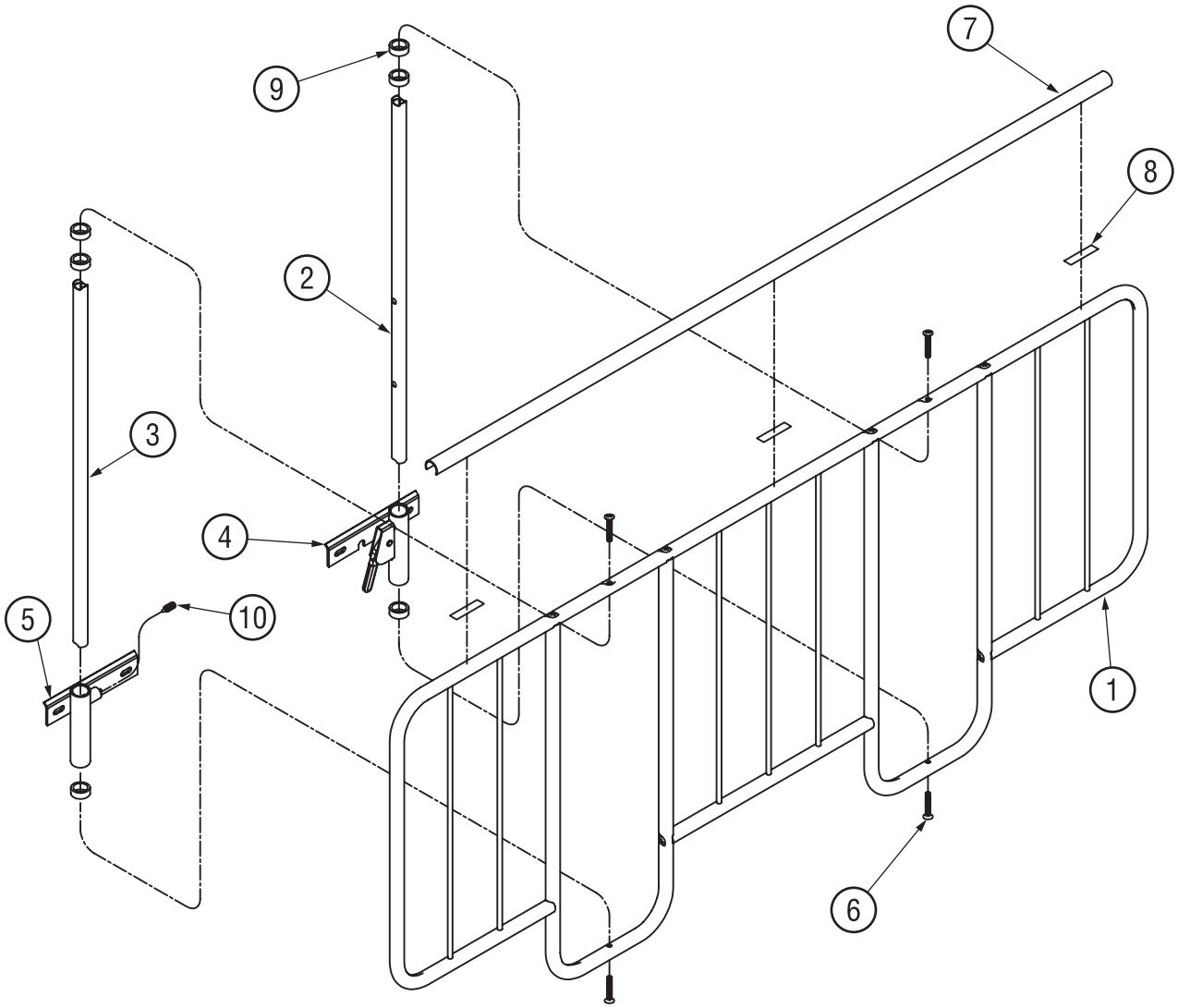

Figure 6-3. Pediatric Rail Assembly

FIG. & ITEM NO.	PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-3		**069059**		**PEDIATRIC RAIL ASSEMBLY**	**X**
1		069055		WELDMENT, Pediatric Rail	1
2	P	056397	938	TUBE, Pediatric Rail Lock	1
3	P	056397	940	TUBE, Pediatric Rail Slide	1
4	P	056397	939	ASSEMBLY, Locking Guide Tube	1
5		069084		SUPPORT, Pediatric Rail Guide	1
6	P	150830	594	SCREW, Oval Head Machine, 1/4-20 x 1-1/4	4
7		069084		EXTRUSION, Side Rail Cap	1
8		000990		TAPE, Double Side, 1/2 x 2.0	3
9		035419		TUBE, Rail Cushion	6
10		069214		PLUNGER, Delrin Ball, 5/16-18 x 5/8	1

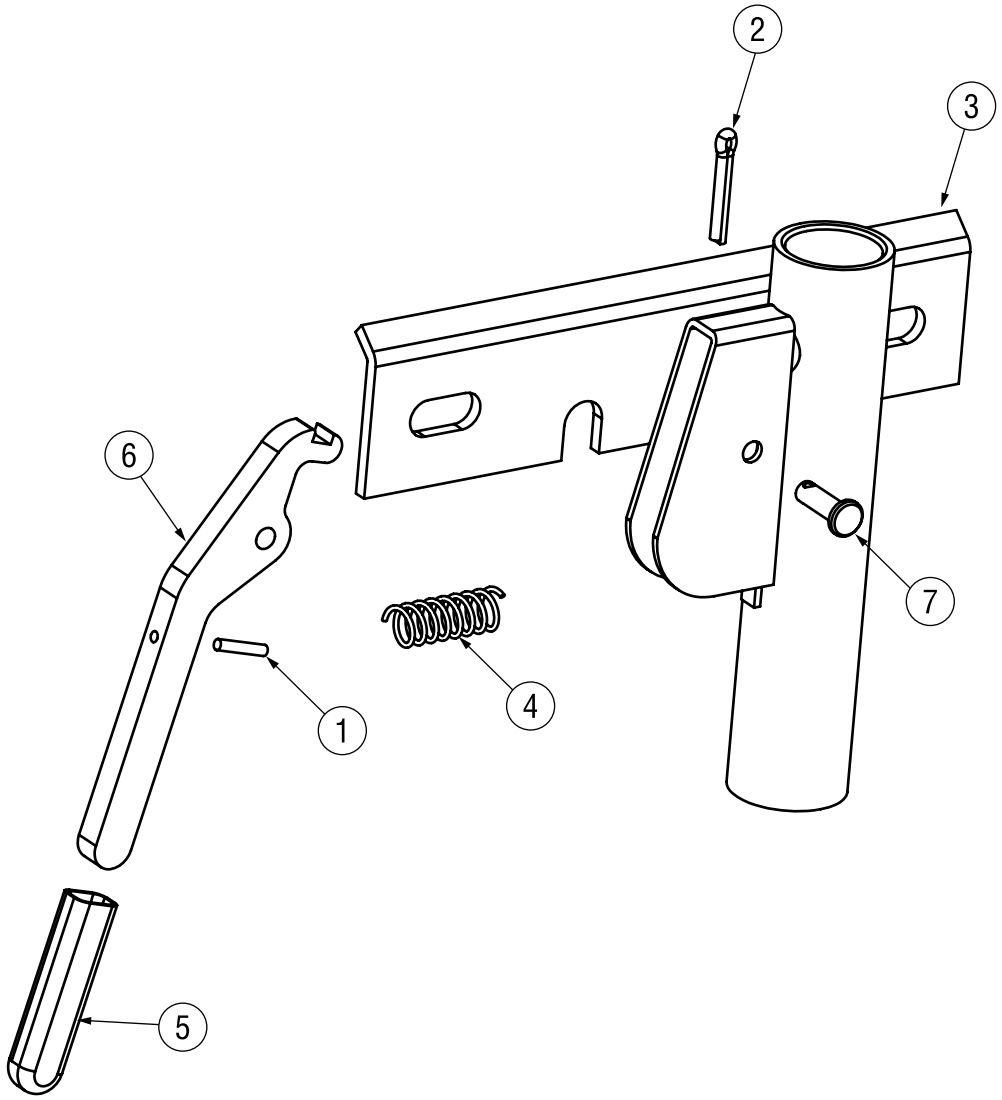

Figure 6-4. Locking Guide Tube - Pediatric Rail Assembly

FIG. & ITEM NO.	PART NUMBER			SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-4	**P**	**056397**	**939**		**LOCKING GUIDE TUBE - PEDIATRIC RAIL ASSEMBLY.....**	**X**
1		031114			PIN, Roll, 3/32 x .500	1
2		035282			PIN, Cotter, .093 x .750.....	1
3		035285			ASSEMBLY, Vertical Rail Guide Tube.....	1
4		035422			SPRING, Trigger	1
5		075271			CAP, Vinyl Red.....	1
6	P	134469	497		TRIGGER, Locking Thumb	1
7	P	150830	587		PIN, Clevis.....	1

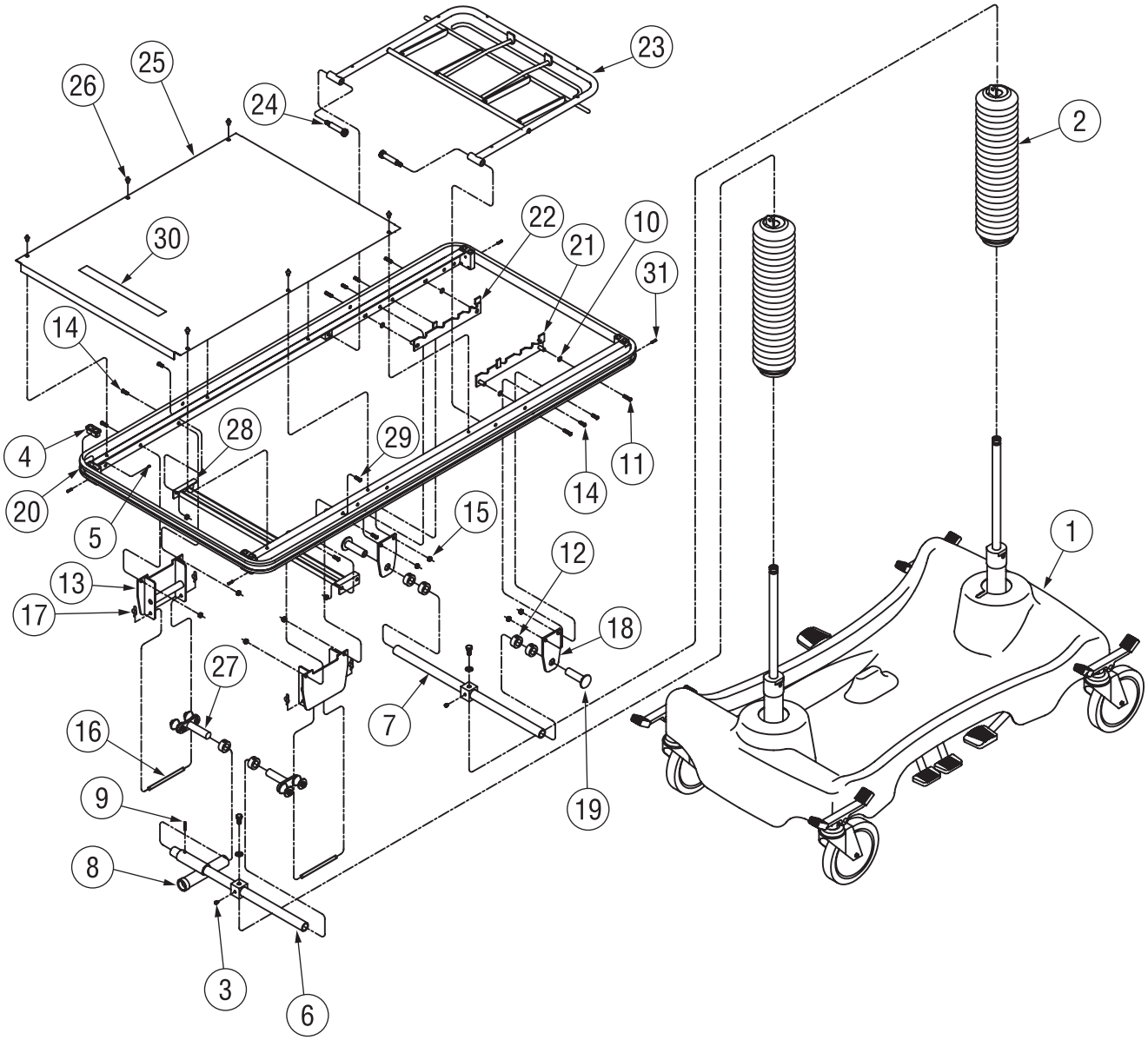

Figure 6-5. Final Assembly (Part 1 of 2)

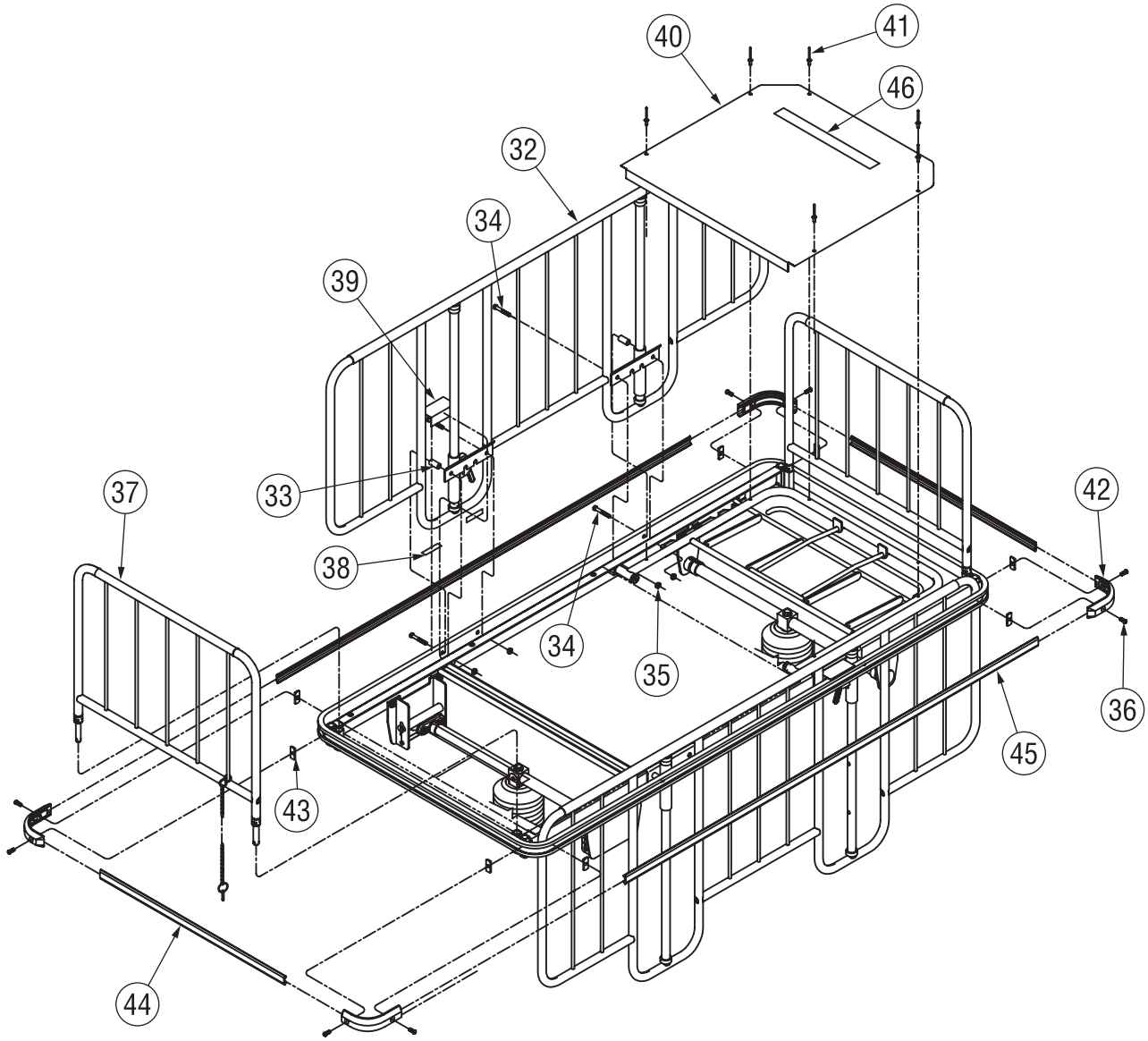

Figure 6-5. Final Assembly (Part 2 of 2)

FIG. & ITEM NO.	PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY
6-5	**P69095**			**FINAL ASSEMBLY**	**X**
1	P 150830	734		ASSEMBLY, Base	1
2	069400			SUB-ASSEMBLY, Bellows	2
3	031021			SCREW, Round Head, 1/4-20 x 1.4	2
4	075226			CAP, I.V. Well Top	4
5	075229			CLIP, 1/8 Nylon Arrow	4
6	069294			CROSSTUBE, Foot End	1
7	068172			CROSSTUBE, Head End	1
8	065210			TUBE, I.V. Rod Storage	1
9	031119			PIN, Spring	1
10	031076			WASHER, Flat, 1/4	4
11	031327			SCREW, Socket Head, 1/4-20 x 1	4
12	068464			COLLAR, 3/4	6
13	P 150830	452		ASSEMBLY, Roller Bracket	2
14	062038			SCREW, Button Head Socket, 1/4-20 x 3/4	8
15	031055			NUT, Lock, 1/4-20	10
16	P 150830	453		PIN, Clevis, 3/8 x 5-5/16	2
17	065258			PIN, Locking Cotter	4
18	069044			MOUNT, Pivot	2
19	068493			PLUG, Crosstube	2
20	069036			ASSEMBLY, Pediatric Welded Top	1
21	069049			PLATE, Right Pediatric Ratchet	1
22	069050			PLATE, Left Pediatric Ratchet	1
23	069497			ASSEMBLY, Fowler	1
24	062037			BOLT, Shoulder, 1/4 x 2.00	2
25	P69089			SHEET, Pediatric Top	1
26	055213			RIVET, 1/4 x 1/2	6
27	068466			ASSEMBLY, Roller	2
28	062358			CHANNEL, Accessory Support	1
29	061195			SCREW, Button Head Socket, 1/4-20 x 5/8	2
30	031212			HOOK, Black Velcro, 2 x 12	1
31	031118			PIN, Spring, 3/16 x 1	4
32	069059			ASSEMBLY, Pediatric Rail	2
33	069093			SPACER, Rail	8
34	031412			SCREW, Hex Head Cap, 1/4-20 x 1-3/4	8
35	031055			NUT, Lock, 1/4-20	8
36	061195			SCREW, Button Head Socket, 1/4-20 x 5/8	8
37	069074			ASSEMBLY, Pediatric End Rail	2
38	068475			TAPE, Double Side, 1/2 x 2.0	4
39	069066			LABEL, Mounting Plate	2
40	P69090			SHEET, Fowler Cover	1
41	000794			RIVET, Pop 3/16	6
42	067958			BUMPER, Corner	4
43	031455			NUT, Channel, 1/4-20	8
44	068154			EXTRUSION, Gray End Bumper	2
45	P 150830	449		EXTRUSION, Gray Side Bumper	2
46	031212			HOOK, Black Velcro, 2 x12	1

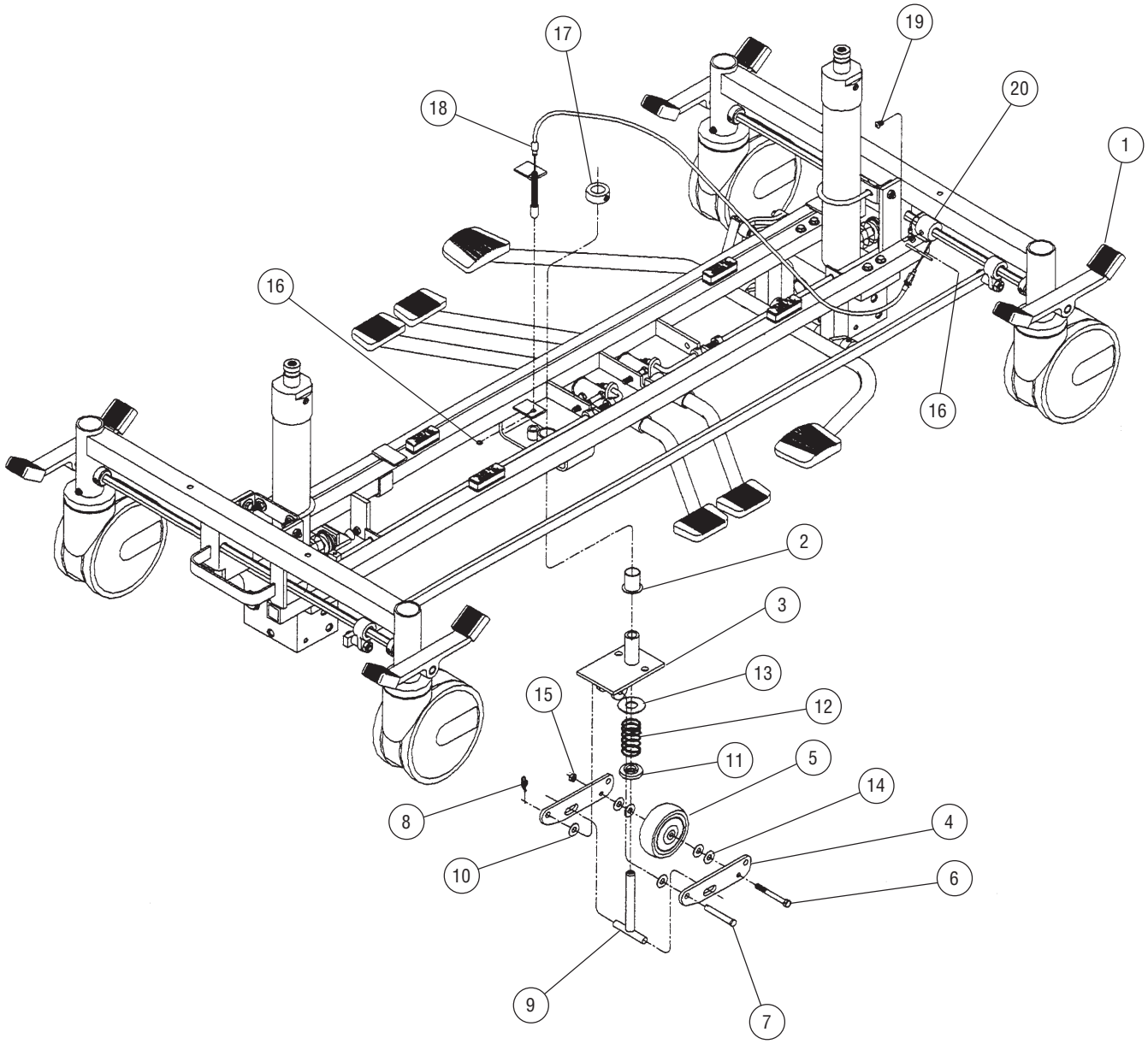

Figure 6-6. 4160 Fifth Wheel Center Track Assembly

FIG. & ITEM NO.		PART NUMBER		SVC	DESCRIPTION	UNITS PER ASSEMBLY			
6-6		**069060**			**4160 FIFTH WHEEL CENTER TRACK ASSEMBLY, 3" .....**	**X**			
		068516			**4160 FIFTH WHEEL CENTER TRACK ASSEMBLY, 4" .....**		**X**		
1	P	150830	734		ASSEMBLY, Horizon Base	1	1		
2		051308			NYLINER, Flange, 3/4" x 1-1/8"	1	1		
3		068360			ASSEMBLY, Swivel Bracket	1	1		
4		068429			PLATE, 5th Wheel Hinge Plate	2	2		
5		069061			WHEEL, 3"	1	–		
		068415			WHEEL, 4"	–	1		
6		069062			SCREW, Hex Head Cap, M6 x 60 mm Long.....	1	1		
7		058419			PIN, Clevis, 5/16" x 2.0" Long	1	1		
8		068417			CLIP, Rue, 5/16".....	1	1		
9		068540			ASSEMBLY, Spring Stop	1	1		
10		065688			WASHER, Nylon, 5/16"	2	2		
11		068416			SPACER.....	1	1		
12		068173			SPRING, 5th Wheel	1	1		
13		031077			WASHER, Flat, 1/2" I.D. x 1.063" O.D.	1	1		
14		031364			WASHER, 1/4"	4	4		
15		069063			NUT, Lock, M6	1	1		
16		062640			RING, Retaining	2	2		
17		068464			COLLAR, 3/4".....	1	1		
18	P	056397	843		ASSEMBLY, 5th Wheel Cable	1	1		
19		068544			SCREW, Button Head Socket, 1/4-20 x 3/8" Long.....	1	1		
20		069007			TUBE, Large Cam.....	1	1		